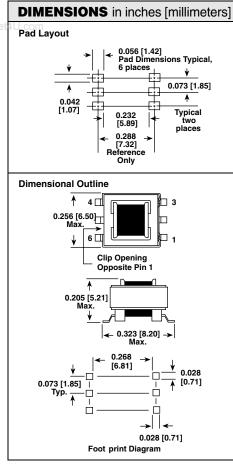


Surface Mount Transformers/Inductors, Gapped and Ungapped, Custom Configurations Available





NOTE: Pad layout guidelines per MIL-STD-275E (printed wiring for electronic equipment).

Tolerances: $xx \pm 0.01$ " [± 0.25 mm]. $xxx \pm 0.005$ " [± 0.12 mm]

ELECTRICAL SPECIFICATIONS

Inductance Range: 10 μH to 3900 μH , measured at 0.10 V RMS at 10 kHz without DC current, using an HP 4263A or 4284A impedance analyzer



RoHS

COMPLIANT

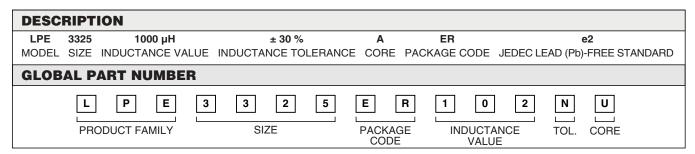
DC Resistance Range: 0.06Ω to 18.0Ω , measured at $+ 25 \degree C \pm 5 \degree C$ **Rated Current Range:** 1.00 amps to 0.06 amps

Dielectric Withstanding Voltage: 500 V RMS, 60 Hz, 5 seconds

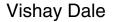
STANDARD ELECTRICAL SPECIFICATIONS						
MODEL	IND. (µH)	IND. Tol.	SCHEMATIC LETTER	DCR MAX. (Ohms)	MAX. RATED* DC CURRENT (Amps)	SATURATING CURRENT** (Amps)
Ungapped Models (A) LPE3325ER100NU LPE3325ER150NU LPE3325ER220NU LPE3325ER330NU LPE3325ER470NU LPE3325ER680NU	10 15 22 33 47 68	± 30 % ± 30 % ± 30 % ± 30 % ± 30 %	A A A A A A A	0.06 0.08 0.09 0.11 0.14 0.16	1.01 0.91 0.83 0.75 0.69 0.63	N/A N/A N/A N/A N/A N/A
LPE3325ER101NU LPE3325ER151NU LPE3325ER221NU LPE3325ER331NU LPE3325ER471NU LPE3325ER681NU	100 150 220 330 470 680	$\pm 30\%$ $\pm 30\%$ $\pm 30\%$ $\pm 30\%$ $\pm 30\%$ $\pm 30\%$	A A A A A	0.20 0.76 0.92 1.13 1.35 1.62	0.57 0.29 0.26 0.24 0.22 0.20	N/A N/A N/A N/A N/A
LPE3325ER102NU LPE3325ER152NU LPE3325ER222NU LPE3325ER332NU LPE3325ER332NU LPE3325ER392NU	1000 1500 2200 3300 3900	$\pm 30\%$ $\pm 30\%$ $\pm 30\%$ $\pm 30\%$ $\pm 30\%$	A A A A A	1.97 2.41 3.00 5.96 7.00	0.18 0.16 0.15 0.10 0.10	N/A N/A N/A N/A N/A
Gapped Models (B) LPE3325ER100MG LPE3325ER150MG LPE3325ER220MG LPE3325ER330MG LPE3325ER470MG LPE3325ER680MG	10 15 22 33 47 68	±20% ±20% ±20% ±20% ±20% ±20%	A A A A A A	0.22 0.27 0.42 0.65 0.97 1.45	0.54 0.48 0.39 0.31 0.26 0.21	1.480 1.240 1.050 0.872 0.740 0.622
LPE3325ER101MG LPE3325ER151MG LPE3325ER221MG LPE3325ER331MG LPE3325ER471MG LPE3325ER681MG LPE3325ER601MG LPE3325ER102MG	100 150 220 330 470 680 1000	$\pm 20\%$ $\pm 20\%$ $\pm 20\%$ $\pm 20\%$ $\pm 20\%$ $\pm 20\%$ $\pm 20\%$	A A A A A A A	2.22 3.55 4.31 6.72 9.83 14.8 18.0	0.17 0.13 0.12 0.10 0.08 0.07 0.06	0.518 0.426 0.354 0.290 0.244 0.204 0.169

* DC current that will create a maximum temperature rise of 30 °C when applied at + 25 °C ambient. ** DC current that will typically reduce the initial inductance by 20 %.

UNGAPPED MODELS: Highest possible inductance with the lowest DCR and highest Q capability. Beneficial in filter, impedance matching and line coupling devices. **GAPPED MODELS:** Capable of handling large amounts of DC current, tighter inductance tolerance with better temperature stability than ungapped models. Beneficial in DC to DC converters or other circuits carrying DC currents or requiring inductance stability over a temperature range.



NOTE Series is also available with SnPb terminations by using package code RY for tape and reel (in place of ER) or SM for bulk (in place of EB).



Surface Mount Transformers/Inductors, Gapped and Ungapped, Custom Configurations Available



SCHEMATIC (TOP VIEW) Schematic A 4 0 5 0 6 0 1

NOTE: Schematic A for both Gapped and Ungapped LPE Series

ENVIRONMENTAL PERFORMANCE						
CONDITIONS						
Withstands - 55 °C to + 125 °C						
- 55 °C to + 125 °C*						
85 %						
Tested to + 230 °C						
Per MIL-STD-202, Method 213 (100G)						
Per MIL-STD-202, Method 204 (20G)						
Per industry standards						

PART MARKING

- Vishay Dale
- Date code
- Marking code (Suffix of model #)
- Pin 1 indicator

* Must be checked in end use application

PACKAGING

TAPE SPECIFICATIONS: STANDARDS: All embossed carrier tape packaging will be Carrier Tape Type: Conductive accomplished in compliance with latest revision of EIA-481 Cover Tape Type: Anti-static "Taping of Surface Mount Components for Automatic Cover Tape Adhesion to Carrier: 40 ± 30 grams Placement". TAPE COMPONENT UNITS PER **REEL SPECIFICATIONS:** MODEL WIDTH PITCH 13 INCH REEL Diameter (flange): 13" [330.2 mm] Maximum Width (over flanges): 1.197" [30.4 mm] LPE-3325 24 mm 12 mm 1000 **Tape and Reel Orientation** (+)(+ Pin 1 Indicator Cover Tape **Carrier Tape** USER DIRECTION OF FEED Embossed Cavity Label Area

NOTE: Top view shown with cover tape removed



Vishay

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